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Root and other contributing causes of incident:

Air Operating Permit Excess Emissions Report Form Part II

Name of Facility	Shell, Pug Refinery	et Sound	Reported by		Tim Figgíe	
Date of notification	December	13, 2012	Incident type breakdown/ or shutdown	upset/startup	Shutdown	
Start Date	December	13, 2012	Start Time:		12:00 AM (midnight)	
End Date	December	14, 2012	End Time:		5:00 PM	
Process unit or system	n(s): SRU	3				
Incident Description						
On December 13, 2012 about midnight high SO2 readings occurred on the SRU3 during hot						
sweep of the unit in preparation for shutdown of the unit for maintenance. SRU3 had no feed						
in the unit during this time and all amine acid gas was routed to SRU4. These high readings are expected and a normal part of shutdown.						
are expected and a no	rmai part o	r snutaown.				
The 12-hour rolling average SO2 was above 250-ppm from December 13, 2012 midnight to						
December 14, 2012 5 pm. The 1000-ppm SO2 limit was not exceeded. The SSMP was						
followed for this shutdown.						
Immediate steps taken to limit the duration and/or quantity of excess emissions:						
The full amine acid gas feed was routed to SRU4.						
Applicable air operating permit term(s): 5.8.15						
Applicable all operating	g permit ter	111(3): 3.0.1				
Estimated Excess Emissions:		Pollutant(s):		Pounds (Estimate):		
Based on SO2 CEMS and calculated		S02		33		
stack flow	culated					
71						
The incident was the result of the following (check all that apply):						
Poor or inadequate design						
Careless, poor, or inadequate operation						
Poor or inadequate maintenance						
A reasonably preventable condition						
	*					
Did the facility receive	e any comp	laints from	the public?			
⊠ No						
Yes (provide details below)						
Did the incident ::==::!	ا - ادر مطاح ما خ	-Man -6				
Did the incident resul	t in the viol	ation of an a	ambient air qu	iality standard		
No No						
Yes (provide details below)						

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These emissions are a normal part of shutdown.
The root cause of the incident was:
(The retention of records of all required monitoring data and support information shall be kept for a period of five years
from the date of the report as per the WAC regulation (173-401-615))
Identified for the first time
Identified as a recurrence (explain previous incident(s) below – provide dates)
Other shutdowns have occurred.
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions
below?
□ No
Yes (describe below)
These emissions are a normal part of shutdown.
<u>Definition of NSPS "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control
equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused
in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2
<u>Definition of NESHAP "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which
causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that
are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2
Analyses of measures available to reduce likelihood of recurrence (evaluate possible design,
operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost;
determine if an outside consultant should be retained to assist with analyses):
These emissions are a normal part of shutdown.
These critisators are a normal part of shadown.
Description of corrective action to be taken (include commencement and completion dates):
See above
See above
If correction not required, explain basis for conclusion:
See above
Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).
Is the investigation continuing?
Is the source requesting additional time for completion of the report? $oxtime{igtime}$ No $oxtime{igcup}$ Yes
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Based upon information and belief formed after reasonable inquiry, I certify that the statements and
information in this document and all referenced documents and attachments are true, accurate and
complete.
Prepared By: _ Debbie Thompsen Date: December 13, 2012
Responsible Official or Designee: Date: Date: Date: Date: Date: Date: Date: Date: Date:
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